



SAFETY DATA SHEET

1. Identification

GHS product identifier	CE-1618 Kosher
MSDS Number	ME543
Product Code	60054923
Version #	04
Issue date	04-30-2010
CAS #	67762-38-3
Product use	Production of amides, methyl ester sulfonates, rolling oils, low-volume solvents, and metal working fluids.
Recommended Restrictions	Not available.
Synonym(s)	METHYL PALMITATE * METHYL STEARATE * METHYL OLEATE * METHYL LINOLEATE
Supplier	1-800-477-8899 or 1-513-626-68 CHEMTREC 1-800-424-9300 U.S.
Manufacturer	P&G Chemicals Asia 238-A Thompson Road #21-01/10 Novena Square Tower A Singapore 307684 (65) 6824 5728 (day phone) PGChemMSDS.IM@pg.com CHEMTREC: +1-703-527-3887 Quality or Service Issues: 1-800-477-8899 or +1-513-626-6882

2. Hazards identification

GHS classification

Physical hazards	Flammable liquids	Not classified
Environmental hazards	Hazardous to the ozone layer	Not classified

3. Composition/information on ingredients

4. First aid measures

First aid procedures

Inhalation	Move to fresh air. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Skin	Wash the skin immediately with soap and water. Remove contaminated clothing. Get medical attention if irritation develops and persists. Wash clothing separately before reuse.
Eye	Flush thoroughly with water for at least 15 minutes. Get medical assistance.
Ingestion	If swallowed, do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Notes to physician Not available.

5. Fire-fighting measures

Suitable extinguishing media	SMALL FIRES: Use CO2 or dry chemical. LARGE FIRES: Use foam. Cool containers with flooding quantities of water until well after fire is out.
Unsuitable extinguishing media	Water may be ineffective.
Specific hazards arising from the chemical	Does not decompose up to 350 F (177 C). Carbon monoxide with incomplete combustion.
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective clothing.

Protective equipment and precautions for firefighters Not available.

6. Accidental release measures

Personal precautions Wear suitable protective clothing. Wear appropriate personal protective equipment. An appropriate NIOSH/MSHA approved respirator should be used if a mist or vapor is generated.

Environmental precautions Dike flow of spilled material using soil or sandbags to minimize contamination of drains, surface and ground waters.

Methods for containment Not available.

Methods for cleaning up Ventilate the area. Eliminate sources of ignition. Contain spill. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Use clean non-sparking tools to collect absorbed material.

7. Handling and storage

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Avoid contact with clothing. Wash thoroughly after handling. Keep away from sources of ignition.

Storage Can be stored in most common storage vessels including carbon steel, aluminum, fiberglass and stainless steel. Keep away from heat, sparks, and flame. Keep away from possible contact with incompatible substances. Store in a cool dry place in accordance with 29 CFR 1910-106/NFPA 30.

Specific uses Follow bulk handling and storage procedures as noted above.

8. Exposure controls / personal protection

Engineering controls Local exhaust is recommended. Mechanical - may be necessary if working at elevated temperatures or in enclosed areas.

Personal protective equipment

General Observe good industrial hygiene practices. Avoid contact with eyes. Avoid contact with skin. Avoid breathing (heated) vapors.

Boots. Apron. Eye wash fountain and emergency showers are recommended. Wear suitable protective clothing.

Eye/face protection Goggles or face shield with goggles, dependent upon potential exposure.

Skin protection Nitrile gloves are recommended. Dependent upon degree of potential exposure, additional personal protective equipment may be required, such as chemical boots and full protective clothing.

Respiratory protection None required for ambient temperature, although an appropriate NIOSH/MSHA approved air-purifying respirator should be used if a mist or vapor is generated. A NIOSH/MSHA approved self-contained breathing apparatus or air-supplied respirator is recommended if the concentration exceeds the capacity of cartridge respirator. **WARNING:** Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Environmental exposure controls Contact Procter and Gamble for specific Community information.

9. Physical and chemical properties

Appearance Liquid.

Physical state Liquid.

Color Water white to Yellow.

Form Liquid.

Odor Musty.

Odor threshold Not available.

pH Not available.

Melting point 50 °F (10 °C)

Freezing point Not available.

Boiling point > 400 °F (> 204.4 °C) @ 760 mm Hg (101.3kPa)

Flash point 425 °F (218.3 °C) Pinsky-Martens Closed Cup

Evaporation rate Not available.

Flammability (Train fire) Not available.

Flammability limits in air, lower, % by volume	Not available.
Flammability limits in air, upper, % by volume	Not available.
Vapor pressure	< 5 mm Hg @ 72 F (22 C)
Vapor density	Not available.
Relative density	0.86 @ 25/25 C
Solubility (H2O)	Negligible @ 72 F (22 C)
Octanol/H2O coeff	Not available.
Auto-ignition temperature	459 °F (237.2 °C)
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Reacts with strong base to produce methanol.
Materials to avoid	Oxidizing agents. Strong bases.
Hazardous decomposition products	Does not decompose up to 350 F (177 C). Carbon monoxide with incomplete combustion.

11. Toxicological information

Skin corrosion/irritation	Not available.
Serious eye damage/eye irritation	Not available.
Other information	Acute Oral Toxicity: Practically non-toxic. The acute oral LD50 was greater than 17.2 g/kg body weight. Eye Irritation: Mild transient eye irritation would be expected with undiluted product in rabbits. Skin Irritation: 24 hour human patch test indicated that undiluted product produced mild irritation. The irritancy was less than the result produced by a 4% aqueous soap solution.

12. Ecological information

Aquatic toxicity	The 96 hour LC50 for Bluegills was greater than 1000 mg/l. Microbiological Inhibition: None at 10,000 mg/l.
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13. Disposal considerations

Disposal methods	Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Do not dispose of via sinks, drains or into the immediate environment.
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14. Transport information

ADR

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. Regulatory information

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information

Disclaimer

The submission of the MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied are for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific product designated herein, and does not relate to use in combination with any other material of any other process. Procter & Gamble assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the controlled product.

Revision date

04-30-2010

SDS sections updated

Other information: Disclaimer